

Title (en)

PLATING SOLUTION FOR ELECTROLESS COPPER PLATING

Title (de)

ABSCHEIDUNGSLÖSUNG FÜR DIE STROMLOSE ABSCHIEDUNG VON KUPFER

Title (fr)

SOLUTION DE PLACAGE POUR CUIVRAGE AUTOCATALYTIQUE

Publication

EP 1681371 A4 20080709 (EN)

Application

EP 04771328 A 20040730

Priority

- JP 2004011327 W 20040730
- JP 2003357992 A 20031017

Abstract (en)

[origin: EP1681371A1] To provide an electroless copper plating solution that is favorable to improve the adhesion of a plating film, and an electroless copper plating solution which realizes uniform plating at a low temperature. This electroless copper plating solution is characterized by containing a water-soluble nitrogen-containing polymer in an electroless copper plating solution, and preferably the above-mentioned electroless copper plating solution contains glyoxylic acid and phosphinic acid as reducing agents. The water-soluble nitrogen-containing polymer is preferably a polyacrylamide or a polyethyleneimine, and preferably its weight average molecular weight (Mw) is at least 100,000, and Mw/Mn is 10.0 or less.

IPC 8 full level

C23C 18/40 (2006.01); **C23C 18/16** (2006.01)

CPC (source: EP KR US)

C23C 18/1642 (2013.01 - KR); **C23C 18/1683** (2013.01 - KR); **C23C 18/1851** (2013.01 - KR); **C23C 18/40** (2013.01 - EP KR US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2005038086A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1681371 A1 20060719; **EP 1681371 A4 20080709**; **EP 1681371 B1 20140604**; CN 100462480 C 20090218; CN 1867698 A 20061122; JP 4293622 B2 20090708; JP WO2005038086 A1 20061228; KR 100767942 B1 20071017; KR 20060096053 A 20060905; TW 200514867 A 20050501; TW I312014 B 20090711; US 2007042125 A1 20070222; US 8404035 B2 20130326; WO 2005038086 A1 20050428

DOCDB simple family (application)

EP 04771328 A 20040730; CN 200480030629 A 20040730; JP 2004011327 W 20040730; JP 2005514710 A 20040730; KR 20067007362 A 20060417; TW 93123316 A 20040804; US 57623104 A 20040730